

In the Claims:

Claims 1-17 (canceled)

Claim 18 (currently amended): An optical disk recording device, comprising:
disk-applicable-recording-speed information reproducing means for reproducing, from
among disk readout signals generated by reading an optical disk to be recorded on, both disk-
applicable-recording-speed information pre-recorded on a track of the optical disk during
manufacture of the optical disk and information indicative of a type and a maker of the optical
disk, the information being pre-recorded on a track of the optical disk during manufacture of the
optical disk, said disk-applicable-recording-speed information include range information
indicative of lower and upper limit values of applicable recording speeds; and
control means for performing recording on the optical disk after setting a recording speed
for the optical disk to a predetermined speed value within a range the range specified by the disk-
applicable-recording-speed information reproduced by said disk applicable-recording-speed
information reproducing means.

Claim 19 (original): An optical disk recording device as recited in claim 18, wherein
said disk-applicable-recording-speed information reproducing means reproduces the disk-
applicable-recording-speed-information pre-recorded in pre-groove wobbles or pre-pits of the
optical disk.

Claim 20 (original): An optical disk recording device for recording on an optical disk where disk-applicable-recording-speed information is incorporated in at least one of lead-in start time information and lead-out start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording device comprising:

time information reproducing means for reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, at least one of the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or the pre-pits of the optical disk during manufacture of the optical disk; and

control means for determining disk-applicable recording speeds based on at least one of the lead-in start time information and the lead-out start time information reproduced by said time information reproducing means, and for performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the determined disk-applicable recording speeds.

Claim 21 (original): An optical disk recording device as recited in claim 20, wherein the disk-applicable-recording-speed information is information indicative of an upper limit value of disk-applicable recording speeds incorporated in the lead-in start time information or the lead-out start time information recorded in the pre-groove wobbles or the pre-pits of the optical disk and wherein said control means sets the recording speed for the optical disk to a speed value not exceeding the upper limit value of the disk-applicable recording speeds.

Claim 22 (original): An optical disk recording device for recording on a recordable optical disk where one of lower and upper limit values of disk-applicable recording speeds is incorporated in lead-in start time information recorded in pre-groove wobbles or pre-pits of the optical disk and another of the lower and upper limit values of the disk-applicable recording speeds is incorporated in lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk, said optical disk recording device comprising:

time information reproducing means for reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk; and

control means for determining one of the lower and upper limit values of the disk applicable recording speeds based on the lead-in start time information reproduced by said time information reproducing means and another of the lower and upper limit values of the disk-applicable recording speeds based on the lead-out start time information reproduced by said time information reproducing means, and for performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the lower limit value to the upper limit value of the disk applicable recording speeds.

Claim 23 (original): An optical disk recording device for recording on a recordable optical disk where both of lower and upper limit values of disk-applicable recording speeds are incorporated in at least one of lead-in start time information and lead-out start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording device comprising:

time information reproducing means for reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, the lead-in start time information or the lead-out start time information recorded in the pre-groove wobbles or the pre-pits of the optical disk during manufacture of the optical disk; and

control means for determining the lower and upper limit values of the disk applicable recording speeds based on the lead-in start time information or the lead-out start time information reproduced by said time information reproducing means, and for performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the lower limit value to the upper limit value of the disk-applicable recording speeds.

Claim 24 (currently amended): An optical disk recording device as recited in claim 18, wherein said control means sets the recording speed to a highest speed value settable within a range the range of the disk-applicable recording speeds.

Claim 25 (original): An optical disk recording device, comprising:
disk-applicable-recording-speed information reproducing means for reproducing, from
among disk readout signals generated by reading an optical disk to be recorded on, disk-
applicable-recording-speed information pre-recorded on a track of the optical disk during
manufacture of the optical disk;
display means for displaying disk-applicable recording speeds based on the
disk-applicable-recording-speed information reproduced by said disk-applicable-recording speed
information reproducing means;
recording speed designating means for designating a particular recording speed value
based on an operation by a user; and
control means for performing recording on the optical disk after setting a recording speed
for the optical disk to the particular recording speed value designated by said recording speed
designating means.

Claim 26 (original): An optical disk recording device as recited in claim 25, wherein
the disk-applicable-recording-speed information reproducing means reproduces the disk-
applicable-recording-speed information pre-recorded in pre-groove wobbles or pre-pits of the
optical disk.

Claim 27 (original): An optical disk recording device for recording on a recordable optical disk where disk-applicable-recording-speed information is incorporated in at least one of lead-in start time information and lead-out start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording device comprising:

disk-applicable-recording-speed information storage means for storing therein correspondencies between values of at least one of the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk and values of disk-applicable recording speeds;

time information reproducing means for reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, at least one of the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk;

display means for displaying the disk-applicable-recording-speed information that is read out from said disk-applicable-recording-speed information storage means based on at least one of the lead-in start time information and the lead-out start time information reproduced by said time information reproducing means;

recording speed designating means for designating a particular recording speed value based on an operation by a user; and

control means for performing recording on the optical disk after setting a recording speed for the optical disk to the particular recording speed value designated by said recording speed designating means.

Claim 28 (currently amended): An optical disk recording method, comprising:
reproducing, from among disk readout signals generated by reading an optical disk to be recorded on, both disk-applicable-recording-speed information pre-recorded on a track of the optical disk during manufacture of the optical disk and information indicative of a type and a maker of the optical disk, the information being pre-recorded on a track of the optical disk during manufacture of the optical disk, said disk-applicable-recording-speed information include range information indicative of lower and upper limit values of applicable recording speeds; and
performing recording on the optical disk after setting a recording speed for the optical disk to a predetermined speed value within a range the range specified by the disk applicable-recording-speed information.

Claim 29 (original): An optical disk recording method as recited in claim 28, wherein in said reproducing the disk-applicable-recording-speed information, the disk applicable-recording-speed information pre-recorded in pre-groove wobbles or pre-pits of the optical disk is reproduced.

Claim 30 (original): An optical disk recording method for recording on an optical disk where disk-applicable-recording-speed information is incorporated in at least one of lead-in start time information and lead-out start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording method comprising:

reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, either one or both of the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk;

determining disk-applicable recording speeds based on at least one of the lead-in start time information and the lead-out start time information; and

performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the determined disk-applicable recording speeds.

Claim 31 (original): An optical disk recording method as recited in claim 30, wherein the disk-applicable-recording-speed information is information indicative of an upper limit value of disk-applicable recording speeds incorporated in the lead-in start time information or the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk, and wherein the recording speed for the optical disk is set to a speed value not exceeding the upper limit value of the disk-applicable recording speeds.

Claim 32 (original): An optical disk recording method for recording on a recordable optical disk where one of lower and upper limit values of disk-applicable recording speeds is incorporated in lead-in start time information recorded in pre-groove wobbles or pre-pits of the optical disk and another of the lower and upper limit values of the disk-applicable recording speeds is incorporated in lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk, said optical disk recording method comprising:

reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or pre-pits of the optical disk;

determining one of the lower and upper limit values of the disk-applicable recording speeds based on the lead-in start time information and another of the lower and upper limit values of the disk-applicable recording speeds based on the lead-out start time information; and

performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the lower limit value to the upper limit value of the disk-applicable recording speeds.

Claim 33 (original): An optical disk recording method for recording on a recordable optical disk where both of lower and upper limit values of disk-applicable recording speeds are incorporated in either one or both of lead-in start time information and lead-out start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording method comprising:

reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, the lead-in start time information or the lead-out start time information recorded in the pre-groove wobbles or the pre-pits of the optical disk during manufacture of the optical disk;

determining the lower and upper limit values of the disk-applicable recording speeds based on the lead-in start time information or the lead-out start time information; and

performing recording on the optical disk after setting a recording speed for the optical disk to a speed value within a range of the lower limit value to the upper limit value of the disk-applicable recording speeds.

Claim 34 (currently amended): An optical disk recording method as recited in claim 28, wherein the recording speed is set to a highest speed value settable within ~~a range~~ the range of the disk-applicable recording speeds.

Claim 35 (original): An optical disk recording method, comprising:

reproducing, from among disk readout signals generated by reading an optical disk to be recorded on, disk-applicable-recording-speed information pre-recorded on a track of the optical disk during manufacture of the optical disk;

displaying disk-applicable recording speeds based on the disk-applicable recording-speed information;

designating a particular recording speed value based on an operation by a user; and

performing recording on the optical disk after setting a recording speed for the optical disk to the particular recording speed value designated.

Claim 36 (original): An optical disk recording method as recited in claim 35, wherein the disk-applicable-recording-speed information pre-recorded in pre-groove wobbles or pre-pits of the optical disk is reproduced.

Claim 37 (original): An optical disk recording method for recording on a recordable optical disk where disk-applicable-recording-speed information is incorporated in at least one of lead-in start time information and lead-out start time information recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, said optical disk recording method comprising:

storing correspondencies between values of at least one of the lead-in start time information and the lead-out start time information recorded in the pre-groove wobbles or the pre-pits of the optical disk during manufacture of the optical disk and values of disk-applicable recording speeds;

reproducing, from among disk readout signals generated by reading the optical disk to be recorded on, at least one of the lead-in start time information and the lead out start time information recorded in the pre-groove wobbles or the pre-pits of the optical disk;

displaying the read out disk-applicable-recording-speed information based on at least one of the lead-in start time information and the lead-out start time information;

designating a particular recording speed value based on an operation by a user; and

performing recording on the optical disk after setting a recording speed for the optical disk to the particular recording speed value designated.

Claim 38 (original): An optical disk recording device as recited in claim 18, wherein the disk-applicable-recording-speed information is indicative of an upper limit value of applicable recording speeds.

Claims 39-41 (canceled)

Claim 42 (previously presented): An optical recording system comprising:

a recordable optical disk where disk-applicable-recording-speed information indicative of applicable recording speeds for the optical disk is pre-recorded on a track of said optical disk during manufacture of the optical disk; and

an optical disk recording device including,

an disk-applicable-recording-speed information reproducing circuit that reproduces the disk-applicable-recording-speed information from the recordable optical disk;

a display unit that displays disk-applicable recording speeds on the basis of the disk-applicable-recording-speed information reproduced by the disk-applicable-recording-speed information reproducing circuit;

a recording speed designating section that designates a particular recording speed value, on the basis of an operation by a user, among from the displayed disk applicable recording speeds; and

a control circuit to perform recording on the optical disk after setting a recording speed for said recordable optical disk to the particular recording speed value designated by said recording speed designating section.

Claim 43 (previously presented): An optical recording method comprising; pre-recording disk-applicable-recording-speed information on a track of an optical disk during manufacture of the optical disk, the disk-applicable-recording-speed information being indicative of applicable recording speeds for said optical disk, reproducing the disk-applicable-recording-speed information from the recordable optical disk before said disk is recorded by a recorder;

displaying disk-applicable recording speeds on the basis of the reproduced disk applicable-recording-speed information;

designating a particular recording speed value, on the basis of an operation by a user, among from the displayed disk-applicable recording speeds, and

recording on the optical disk after setting a recording speed for the recordable optical disk to the designated particular recording speed value.

Claim 44 (currently amended): A recordable optical disk where disk-applicable-recording-speed information indicative of applicable recording speeds for said optical disk is pre-recorded in pre-groove wobbles or pre-pits of the optical disk during manufacture of the optical disk, the disk-applicable-recording-speed information being capable of being reproduced as disk-applicable recording speed displayed on a display device of a recording device, said disk-applicable-recording-speed information include range information indicative of lower and upper limit values of applicable recording speeds, and

where information indicative of a type and maker of said optical disk is incorporated in time information pre-recorded on a track of said optical disk during manufacture of said optical disk.

Claims 45-46 (canceled)

Claim 47 (currently amended): A recordable optical disk where disk-applicable-recording-speed information indicative of applicable recording speeds for the optical disk is pre-recorded in pre-groove wobbles or pre-pits of a track of the optical disk during manufacture of the optical disk, the disk-applicable-recording-speed information being capable of being reproduced as disk-applicable recording speed displayed on a display device of a recording device, said disk-applicable-recording-speed information including range information indicative of lower and upper limit values of applicable recording speeds, and

wherein information indicative of a type and a maker of the optical disk is incorporated in time information pre-recorded on the optical disk during manufacture of said optical disk, thereby the information indicative of a type and maker of said optical disk is reproduced by the recording device.